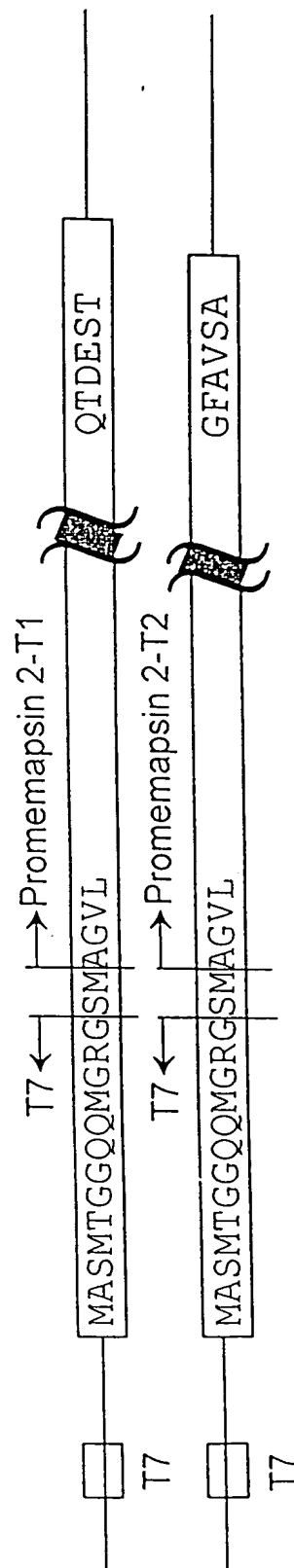


FIG. 1

FIG. 1

1v MASMTGGQQM GRGSMAGVLP AHGTQHGIRL PLRSLGGAP LGLRLPRETD
 36p EEPEEPGRRG SFVEMVDNLR GKSGQGYVE MTVGSPPTL NILVDTGSSN
 38 FAVGAAPHPF LHRYYQRQLS STYRDLRKGV YVPYTQGWKE GELGTDLVSI
 88 PHGPNVTVRA NIAAITESDK FFINGSNWEG ILGLAYAEIA RPDDDSLEPFF
 138 DSLVKQTHVP NLFSLQLCGA GFPLNQSEVL ASVGSGMIIG GIDHSLYTGS
 188 LWYTPIRREW YVEVIVRVE INGQDLKMDK KEYNYDKSIV DSGTTLRLP
 238 KKVFEEAAVKS IKAASSTEFK PDGFWLGEQL VCWQAGTTPW NIFPVISLYL
 288 MGEVTNQSR ITILPQQYLR PVEDVATSQD DCYKFAISQS STGTVMGAVI
 338 MEGFYVVDR ARKRIGFAVS ACHVHDEFRT AAVEGPFVTL DMEDCGYNIP
 388 QTDESTLMTI AYVMAAICAL FMLPLCLMVC QWRCLRLRQ QHDDFADDIS
 438 LLK*



APPROVED	BY	CLASS	SUBCLASS

"Inhibitors of Memapsin 2 and Use Thereof"
 Gerald Koelsch, Jordan J. N. Tang, Lin Hong, and Arun K. Ghosh
 Division of U.S.S.N. 09/603,713
 Filed: April 27, 2001
 Atty. Docket No.: OMRF 182 DIV

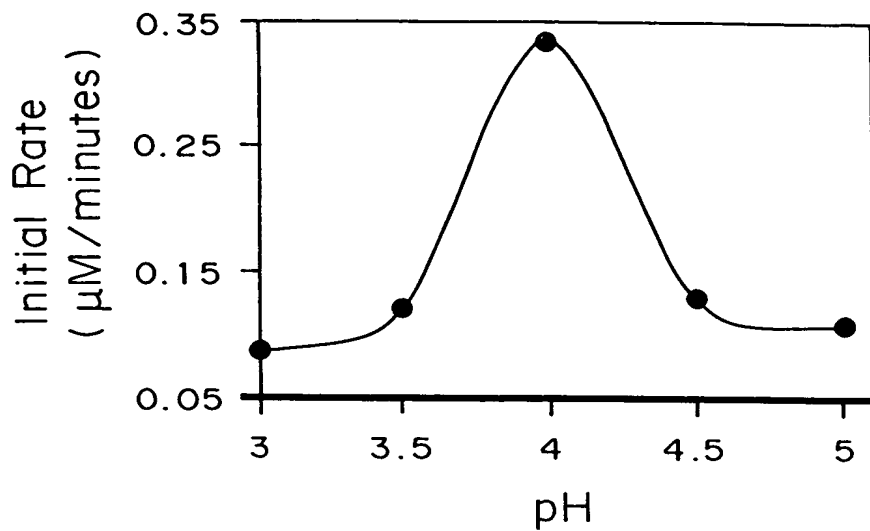


FIG. 2A

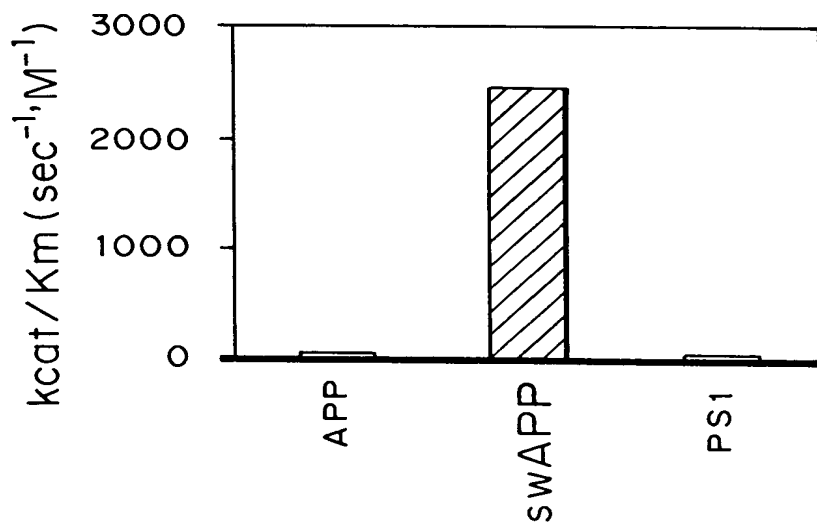
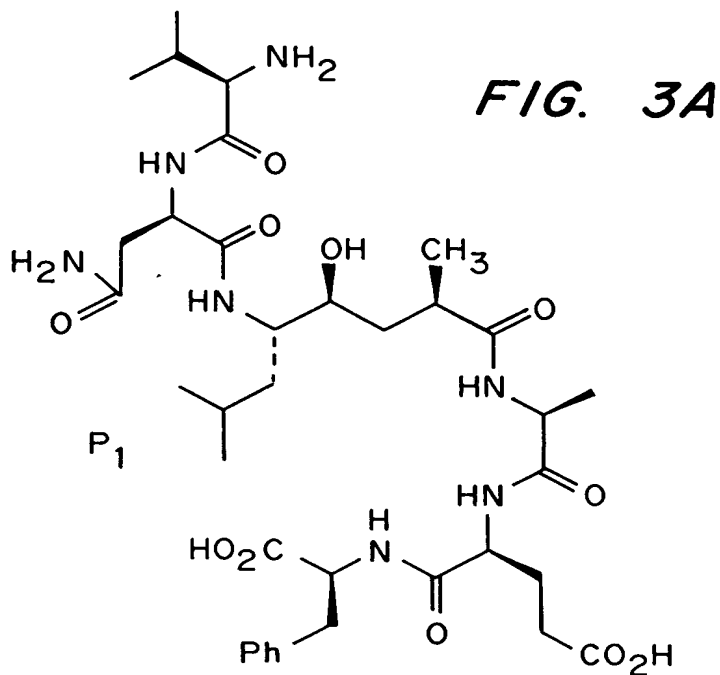
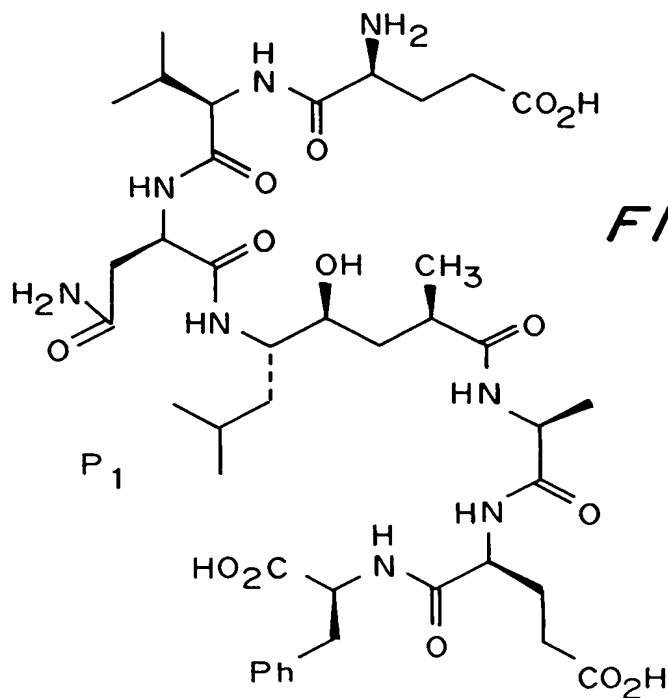


FIG. 2B

FIG. 2A and FIG. 2B



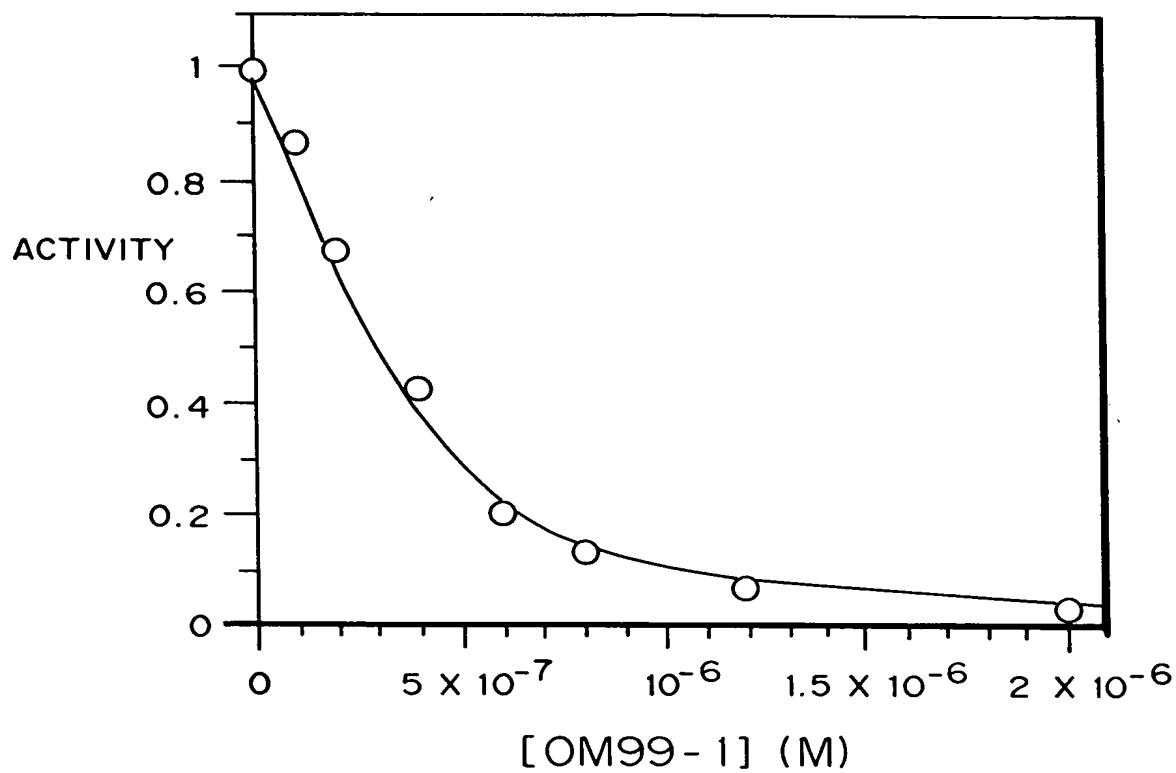
OM99 - 1



OM99 - 2

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FIG. 4A



[Mep2] = 0.47 μ M

[Fluo. Substrate] = 29.9 μ M

Buffer: Na Acetate 0.1 M, 5% DMSO, pH 4.5 at 37°C

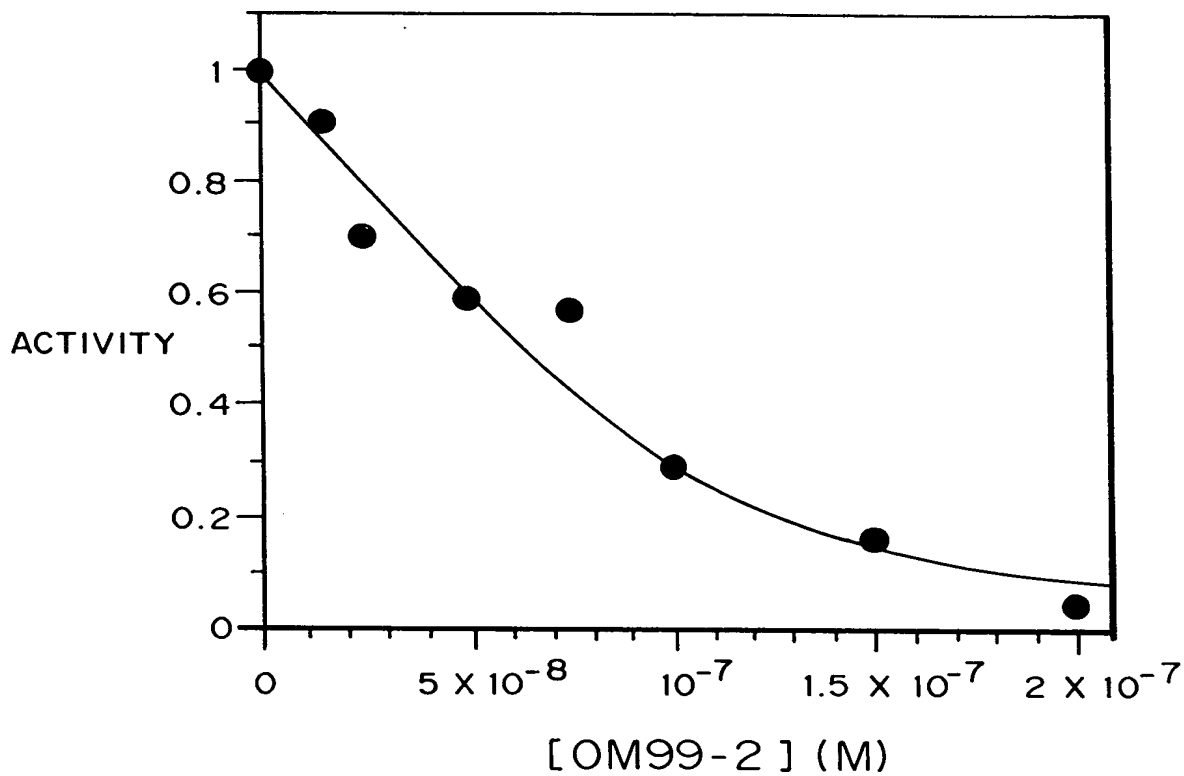
Excitation at 350 nm

Emission at 490 nm

Parameter	Value	Std. Error
Ki	6.84 e - 8	2.72 e - 9

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FIG. 4B



$[E]_0 = 0.11 \mu\text{M}$

$[\text{Fluo Substrate}] = 29.9 \mu\text{M}$

Parameter	Value	Std. Error
Ki	9.58e-9	2.86e-10

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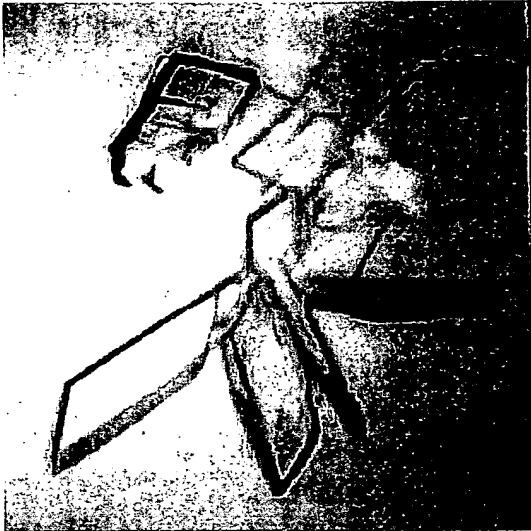


FIG. 5C

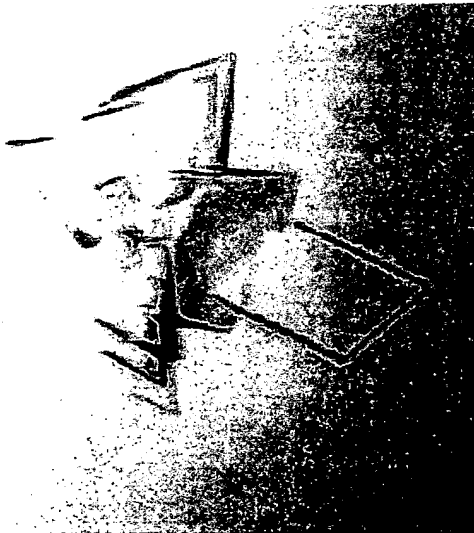


FIG. 5B



FIG. 5A



FIG. 5E



FIG. 5D

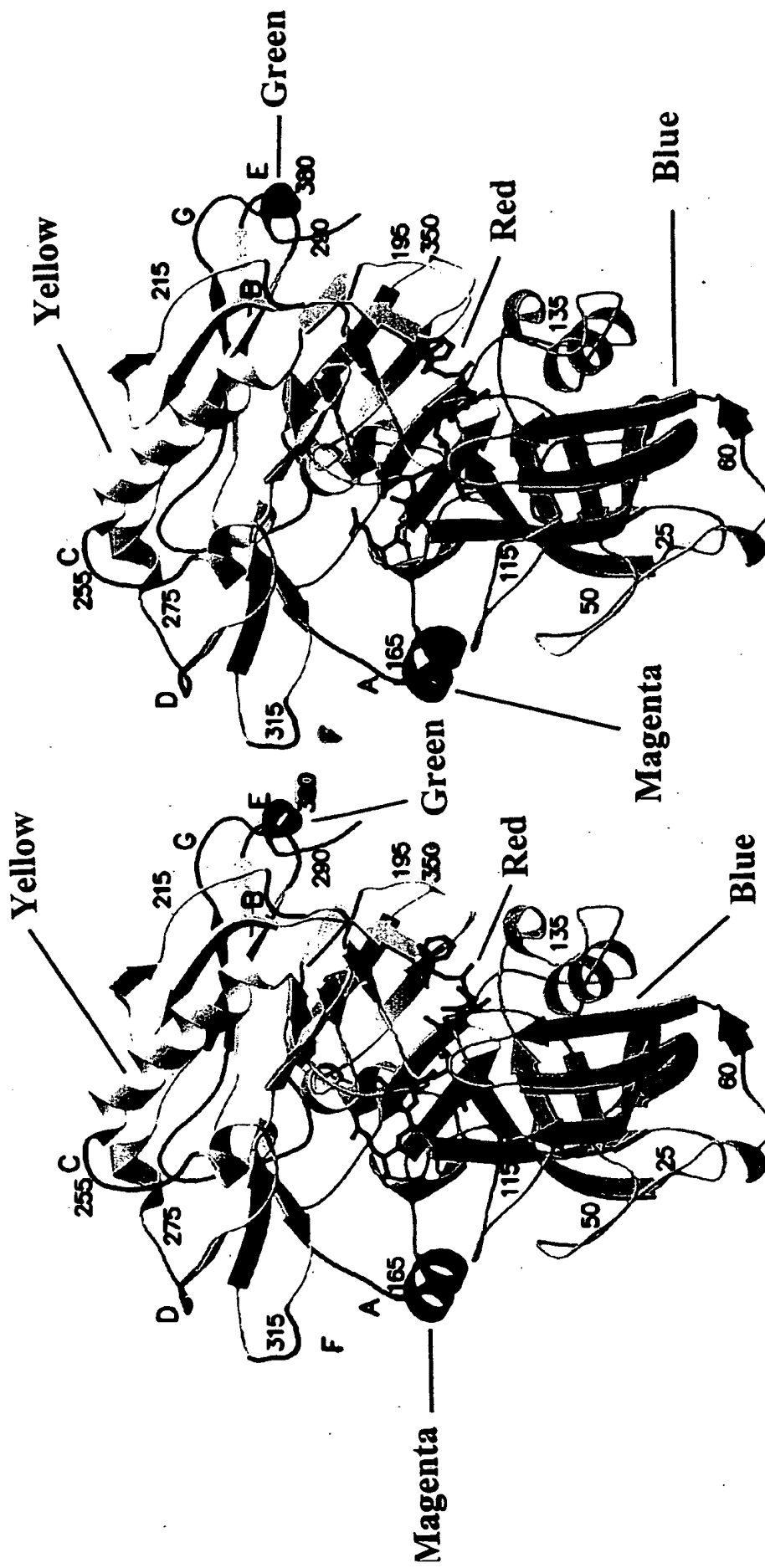
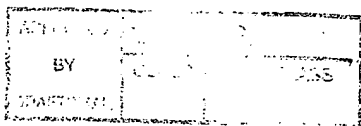
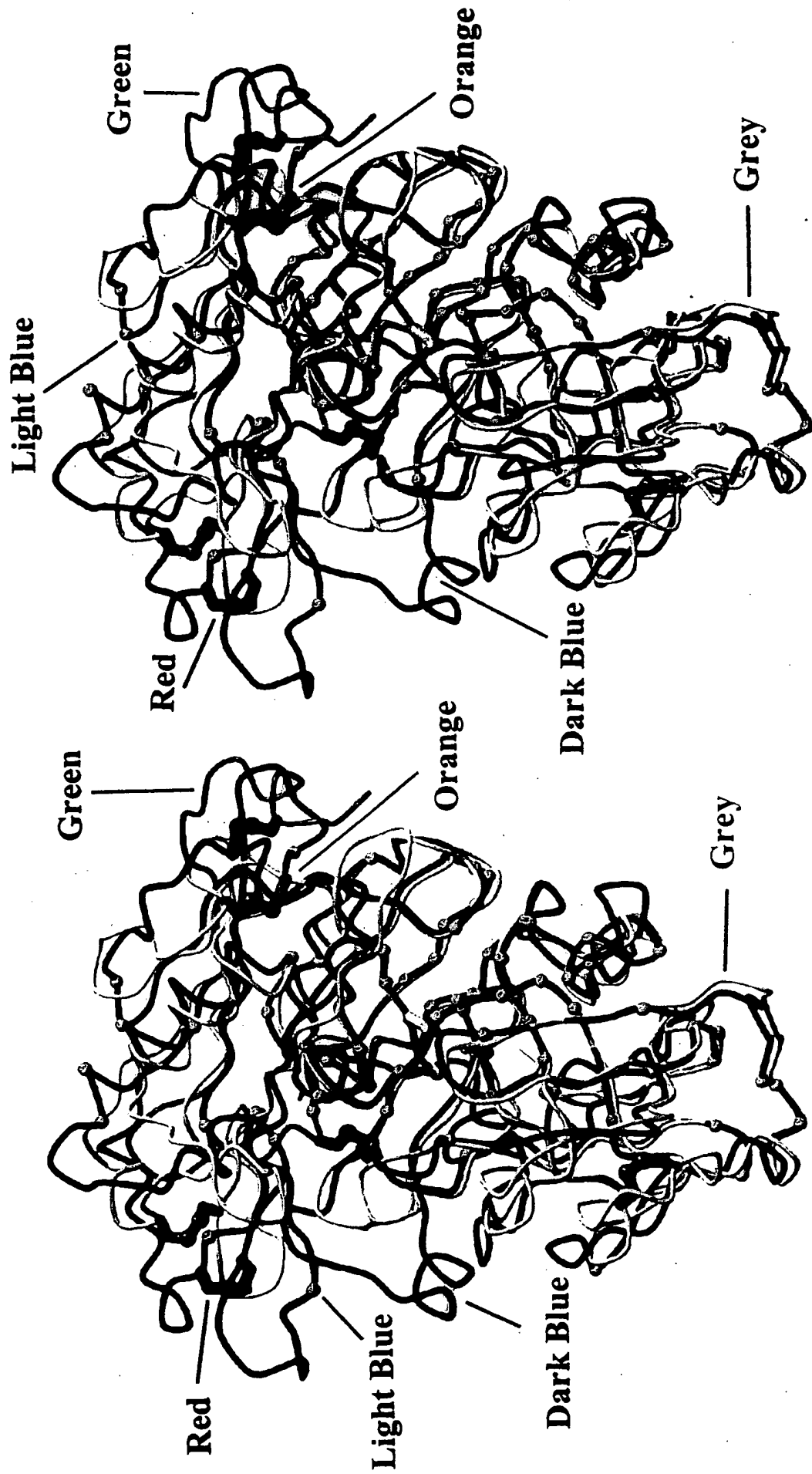


FIG. 6

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FIG. 7

Leu30
 Tyr71 Phe108
 Trp115 Ile118
 Thr232
 P₃ Val
 P₁ Leu
 P₂ Ala
 Ser35
 P₄ Phe
 P₃ Glu
 P₁ Ala
 Thr232 Asn233 Thr72 Gln73 Thr72 Ile226
 Arg235 Arg235 Thr231 Arg235 Asp228

Thr232 Asn233 Thr72 Gln73 Thr72 Ile226
 Arg235 Arg235 Thr231 Arg235 Asp228

FIG. 8

The image displays two chemical structures of a complex organic molecule, likely a phthalocyanine derivative, showing various substituents and color-coded regions. The structures are labeled 'Light Blue' and 'Yellow'.

Light Blue Structure (Left):

- Substituents:** 110, 115, 108, 118, 71, 32, 35, 70, 226, 328, 224, 307, 11, 12, 13, 10, 232, 233, 325, 235, 228, 72, 30, 53, 32, 35, 70, 226, 328, 224.
- Color-coded Regions:** Light Blue, Blue, Orange, Red.

Yellow Structure (Right):

- Substituents:** 110, 115, 108, 118, 71, 32, 35, 70, 226, 328, 224, 307, 11, 12, 13, 10, 232, 233, 325, 235, 228, 72, 30, 53, 32, 35, 70, 226, 328, 224.
- Color-coded Regions:** Yellow, Blue, Orange, Red.

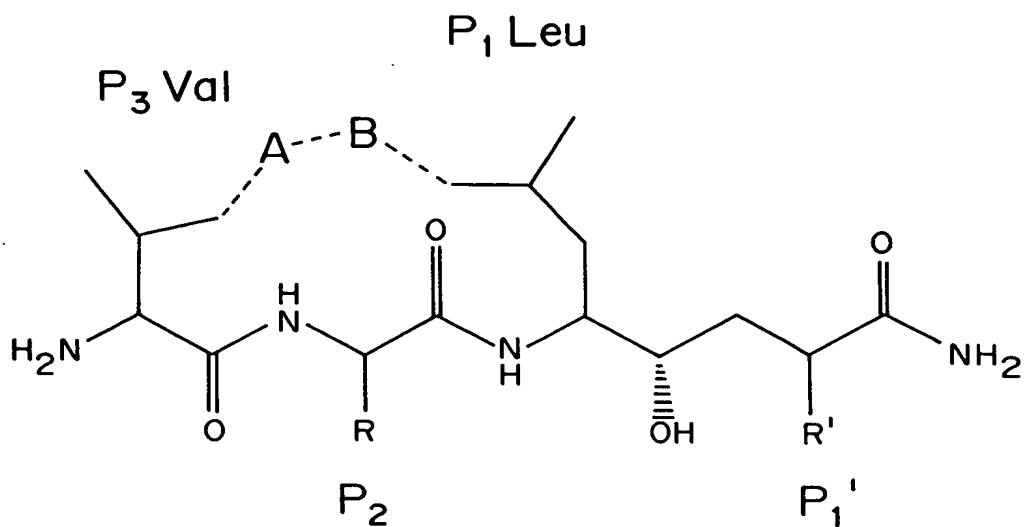


FIG. 10

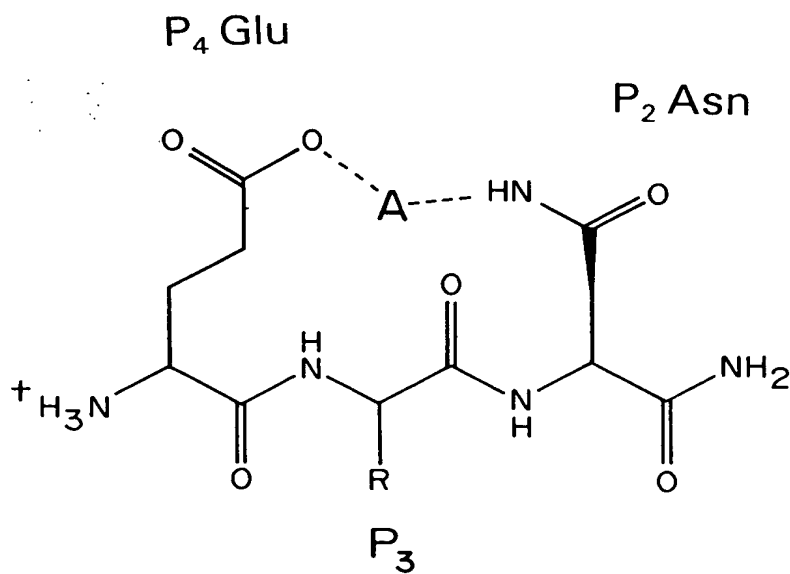
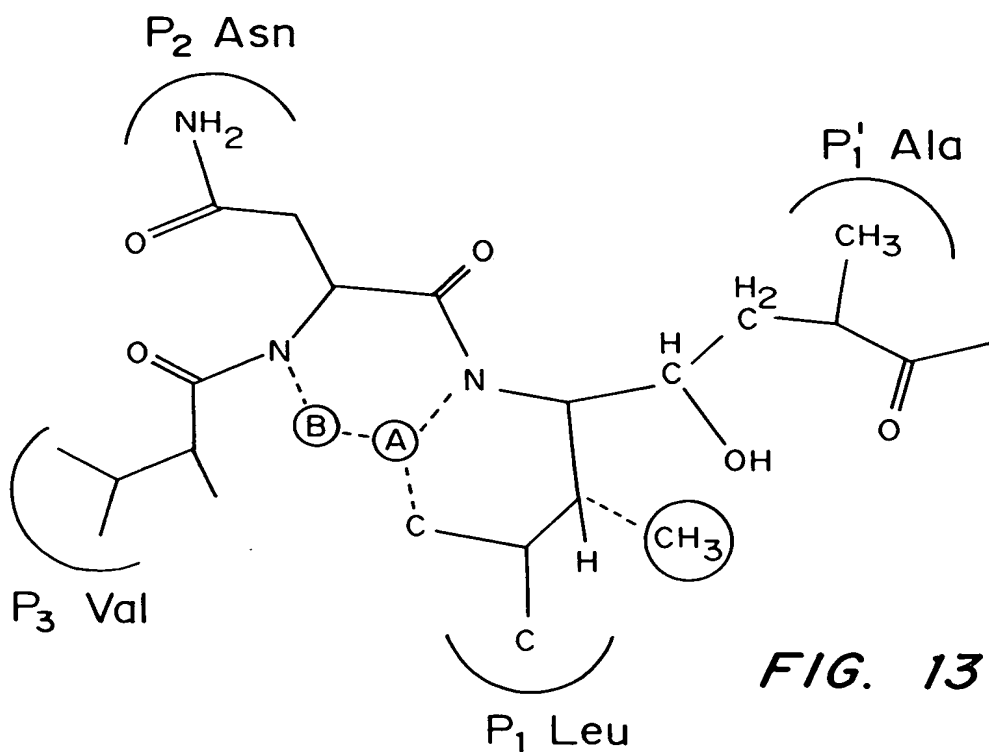
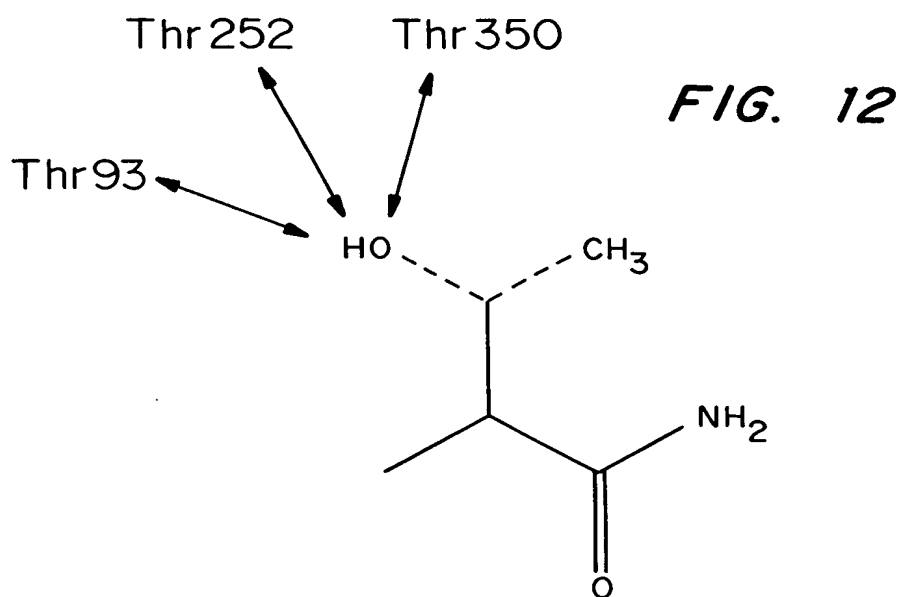


FIG. 11

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